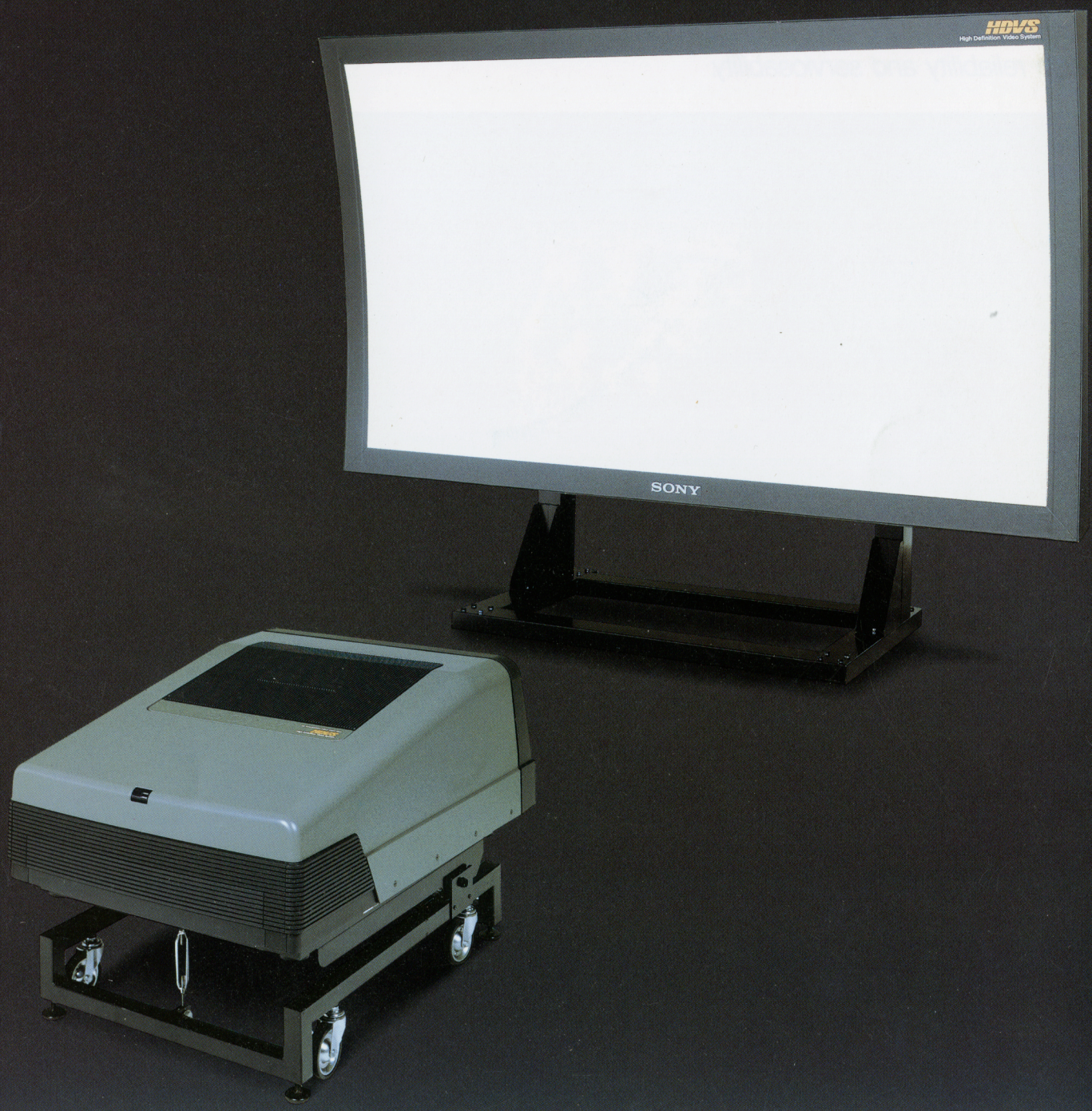
SONY

High Definition Projection System



HDVS
High Definition Video System

A quality projector is essential for any HDVS (High Definition Video System) to deliver clear messages. Sony has developed the sophisticated high definition projectors: the HDIH series covering a wide range of display; the HDIH-1200/1200M, HDIH-2000/2000M and HDIH-3000/3000M, and the rear projector used even in the unfavorable lighting conditions; the HDIR-550/550M. This abundant line-up of high definition projector can meet a variety of applications such as exhibitions, trainings, presentations and many other large screen displays.

The HDIR-550/550M features high mobility with a 55 inches screen size diagonally thanks to the compact and lightweight mechanical structure.

Sony high definition projectors, the HDIH series and the HDIR-550/550M, cover a wide range of display size of 55 inch, 100 to 350 inches, and can be utilized in a variety of industries together with other high definition equipment which Sony can totally offer with high reliability and serviceability.

High Definition Projector—HDIH series—
HDIH-1200/1200M, HDIH-2000/2000M, HDIH-3000/3000M

Large screen display is effective for clear and impressive information delivery. The HDIH series high definition projectors: the HDIH-1200/1200M, HDIH-2000/2000M and HDIH-3000/3000M cover a wide scale of screen size ranging from 100 to 350 inches. Thus, these HDIH series can offer a lot of opportunities to be employed, for instance, in exhibitions, entertainments and presentations with high quality image.

Main Features

- **Automatically selected aspect ratio**
  The following two types of aspect ratio can be automatically selected in accordance with the input signals.
  16 : 9 for HDTV
  4 : 3 for four color standards
  (NTSC, PAL, SECAM, NTSC4.43)
- **Large screen display is available.**
  HDIH-1200/1200M—Display in size from 100″ to 150″ diagonally
  HDIH-2000/2000M—Display in size from 150″ to 220″ diagonally
  HDIH-3000/3000M—Display in size from 220″ to 350″ diagonally
- **High brightness**
  The light output of 300 lumens at peak white is realized thanks to the adoption of high performance 9-inch CRT and HACC lens. The HACC lens also provides accurate color reproduction.
- **LC² system**
  Liquid Coupling and Cooling (LC²) system is adopted to realize high contrast ratio.
- **Easy adjustments**
  The registration, lens focus and white balance adjustments are the primary concerns in the projector set-up. The HDIH series have the following features regarding their adjustments.
  —Wireless or wired remote control is possible for both registration and lens focus adjustments.
  —The registration is digitally adjusted, and instructions and status indications are displayed on the screen.
  —9 types of test signal generators are built-in for easy adjustments of registration, white balance and lens focus.
- **Ceiling and table top setup both possible.**
- **Rear projection**
  Employing with the optional HDIS-1200RK Rear screen kit, the HDIH-1200/1200M can be used as the rear projection system.
- **Twin stacking capability**
  Using the optional HDIT-3000W Projection Head Stand, twin stacking application of HDIH-3000/3000M is possible. This system provides bright image projection (peak white: 600 luments, all white: 260 lumens).

System Composition

The HDIH series projection system is composed of the following components.

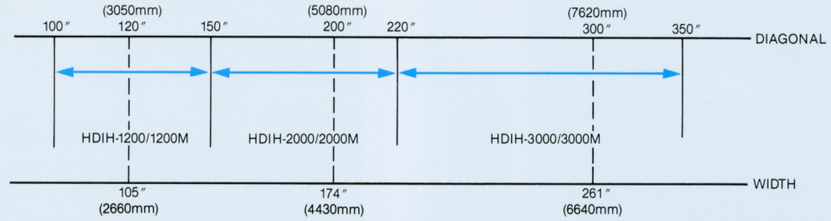
• HDIH-1200/1200M*1	Sony HD Projection Head
• HDIH-2000/2000M*1	Sony HD Projection Head
• HDIH-3000/3000M*1	Sony HD Projection Head
• HDIS-1200C1	Sony HD Screen (Semi-curved 120″ diagonal, 16 : 9 aspect ratio)
• HDIB-1200C	Sony HD Screen Stand (for the HDIS-1200C1)
• HDIT-1200	Sony HD Projection Head Stand (for the HDIH-1200/2000/3000 series)
• HDIT-3000W	Sony HD Projection Head Stand (for twin stacking of HDIH-3000/3000M)
• HDIS-1200RK*2	Sony HD Rear Screen Kit

*1 A remote commander RM-1200 is supplied with each of the HDIH series projection head.
*2 This kit consists of mirror with stand, projection head twin-stack stand, rear screen (120″ diagonal) with screen stand.

HDIH Remote Commander RM-1200

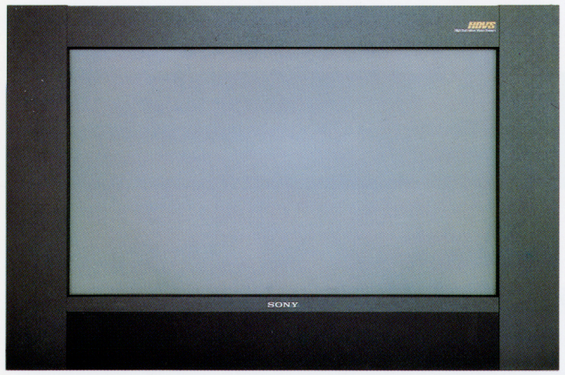
Screen Size Chart

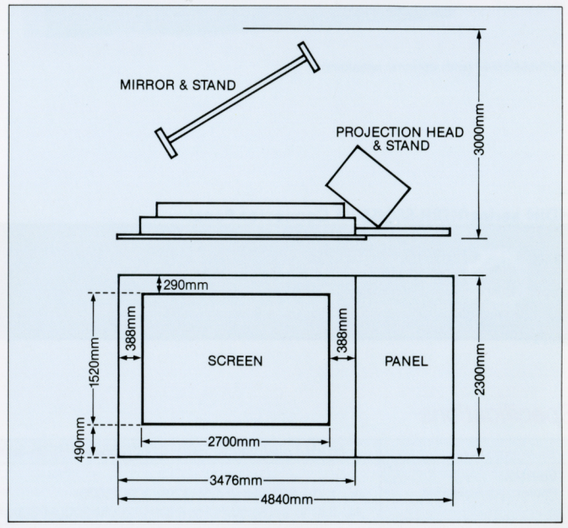
The HDIH-1200/1200M, HDIH-2000/2000M and HDIH-3000/3000M adapt to a range of display size, from 100″ to 350″ diagonal as the following chart shows:



Rear Projection (HDIS-1200RK)

Using the optional HDIS-1200RK Rear Screen Kit, the HDIH-1200/1200M can construct a rear projection system, which provides a wide viewing angle (±60° horizontally, ±26° vertically). This system can be more effectively used even in the difficult lighting conditions compared with the front projection system. The diagram shows the system dimensions of the rear projection employing the HDIH-1200/1200M and the HDIS-1200RK.





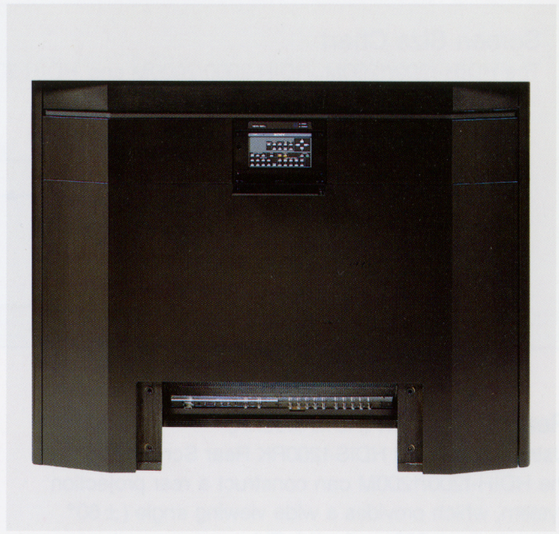
High Definition Rear Projector—HDIR-550/550M—

The HDIR-550/550M HD Rear Projector can be used even in the unfavorable lighting conditions with the adoption of innovative super fine pitch screen with black coated stripes. One piece unit combined with screen and projection head allows high mobility with the compact and lightweight mechanical construction.

Main Features

- **One piece unit**
  In the HDIR-550/550M, a projection head, a rear screen and other mechanical devices are put together in one piece unit. Also, four casters allow easy transportation.
- **High quality picture**
  With the adoption of new 7″ CRT, high resolution/non-spherical lens and super fine pitch screen, the HDIR-550/550M can provide high quality and precise images.
- **High contrast ratio**
  High contrast ratio is realized due to the development of the optical coupling liquid cooling system together with the adoption of anti-reflective multi-coating lens.
- **Screen with black stripes**
  Black stripes are coated on the screen surface for adsorption of the ambient light.
- **Automatically selected aspect ratio**
  The following two types of aspect ratio can be automatically selected in accordance with the input signals.
  16 : 9 (H:V) for HDTV
  4 : 3 (H:V) for four color standards
  (NTSC, PAL, SECAM, NTSC4.43)
- **Easy adjustment**
  The registration and white balance can be adjusted via the remote commander supplied with the HDIR-550/550M.

HDIR-550/550M (with optional speakers)



HDIR-550/550M Control Section

HDIH series/HDIR-550/550M Connector Panel

Specifications

	HDIH-1200/1200M, HDIH-2000/2000M, HDIH-3000/3000M	HDIR-550/550M
General Power requirements	AC 120V, 50/60Hz (HDIH-1200/2000/3000) AC 220 to 240V, 50/60Hz (HDIH-1200M/2000M/3000M)	AC 120V, 50/60Hz (HDIR-550) AC 220 to 240V, 50/60Hz (HDIR-550M)
Power consumption	Approx. 480W	Approx. 400W
Horizontal resolution	1000TV lines (at screen center)—HDTV input 700TV lines (at screen center)—Composite video input	800TV lines (at screen center)—HDTV input 700TV lines (at screen center)—Composite video input
Vertical resolution	850TV lines (at screen center)—HDTV input	750TV lines (at screen center)—HDTV input
Horizontal frequency	15KHz to 35KHz	15KHz to 35KHz
Vertical frequency	50Hz to 120Hz	50Hz to 120Hz
Video bandwidth	30MHz	30MHz
Brightness	300 lumen (peak white) 130 lumen (all white)	200 ft-L (peak white) 50 ft-L (all white)
Input	G/Y, B/P_B, R/P_R, Sync/HD, VD (HDTV) × 2 lines: BNC, 75 ohm terminated Composite video: BNC, 75 ohm terminated Y/C: Din-4pin, 75 ohm terminated Control S: Mini-jack	G/Y, B/P_B, R/P_R, Sync/HD, VD (HDTV) × 2 lines: BNC, 75 ohm terminated Composite video: BNC, 75 ohm terminated Control S: Mini-jack
Operating temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Dimensions	743(W) × 402(H) × 998(D)mm (29 3/8 × 15 7/8 × 39 3/8″)	1340(W) × 1815(H) × 990(D)mm (52 7/8 × 71 5/8 × 39″)
Weight	99Kg (218 lb 4 oz)	220Kg (446 lb 14 oz)
Optical Projection system	3 picture tubes, 3 lenses, horizontal in-line system	3 picture tubes, 3 lenses, horizontal in-line rear projection system
Picture tube	9″ high brightness, magnetic focus CRT, Impre-cathode, LC^2 (Liquid Coupling and Cooling) System	7″ high brightness, optical coupling and liquid cooling system
Lens	High performance HACC lens, Anti-reflection coating F1.24, f172mm (HDIH-1200/1200M) F1.25, f174mm (HDIH-2000/2000M) F1.25, f177mm (HDIH-3000/3000M)	High performance HACC lens, F1.1, f116mm, anti-reflective multi-coating
Projection size	100″ - 150″ diagonally (120″, factory set)—HDIH-1200/1200M 150″ - 220″ diagonally (200″, factory set)—HDIH-2000/2000M 220″ - 350″ diagonally (240″, factory set)—HDIH-3000/3000M	55″ diagonally
Screen	—	2 pieces type, black stripe coating
Optimum viewing angle	—	Horizontal: ±50°, Vertical: ±20°

Design and specifications subject to change without notice.

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